

SAN FRANCISCO / BAY AREA

TEEF S TIMEX / SINCLAIR

UCLUME 1 ISSUE 5 NOVEMBER

±1.00

#### 2000 UPDATE

TIMEX HAS CONTINUED TO CONDUCT A SILENT PROMOTION FOR ITS
REWORKED 2000 SERIES COMPUTER
ABOUT THE NEW 48K COLOR COMPUTER
BUT TIMEX HAS BEEN CAREFUL TO NAME
ABOUT THE NEW 48KN CHARFUL TO NAME
OF THE MANY COMPANIES TO
SUFFER FOR PROMOTINE HAVE APPLENCE
SUFFER FOR PROMOTINE AND THAT
HAVE HAD A FIRST AND EXPANDE
THAT HAD A FIRST AND EXPAND
TO HELP FURTHER IMPRESSIONS
TO HELP FURTHER IMPRESSIONS
TO HELP FURTHER FOR DESIGNED OF SILLUSTRATE PROGRAMING COMPONE
GIVE THE CONSUMER AND THE 2068 TO PROGRAMING TO THE 2068 TO SILLUSTRATE PROGRAMING TO THE 2068 TO SHOULD NOTHER ASSETTING THE 2068 IN LATE OCTOBER.

### TS2000 SEMICIRCLE

7 BORDER 1: PAPER 5: CLS 10 PLOT 0,88: DRAW 128,0,PI

## COMMODORE 64 HAND CLAP

10 S=54272

20 FORL=TO24: POKES+L, 0: NEXT

30 POKES+0,240:POKES+1,33

40 POKES+5,8

50 POKES+22,104

60 POKES+23,1

70 POKES+24,79

80 FORN=1T015 90 POKES+4,129

100 PORT=1T0250:NEXT:POKES+4,128

110 FORT=1TO30:NEXT:NEXT

120 POKES+24,0

- CONTINUED ON PAGE 28-

### COMMODORE 64 SEMICIRCLE

- 5 BASE=2\*4096:POKE53272,PEEK(53272)ORB:REM PUT BIT MAP AT 8192
- 10 POKE53265, PEEK (53265) OR32: REM ENTER BIT MAP MODE
- 20 FORI=BASETOBASE+7999: POKEI, 0:NEXT: REM CLEAR BIT MAP
- 30 FORI=1024T02023:POKEI, 3:NEXT:REM SET COLOR TO CYAN AND BLACK
- 50 FORX-0TO160: REM DO HALF THE SCREEN
- 55 Y1=100+SQR(160\*X-X\*X)
- 60 FORY=YlTOY2STEPY1-Y2
- 70 CH=INT(X/8)
- 80 RO=INT(Y-8)
- 90 BY=BASE+RO\*320+8\*CH+LN
- 100 BI=7-(XAND7)
- 110 POKEBY, PEEK(BY)OR(2IBI)
- 114 NEXT
- 120 NEXTX
- 125 POKE1024,16
- 130 GOTO130

LOOK INSIDE FOR ADDITIONAL PROGRAMING EXAMPLES. WE WOULD BE PLEASED TO PUBLISH OTHER EXAMPLES OF HOW THE TIMEX AND A COMPETITOR WORK TO DO THE SAME PROGRAM.

BAY AREA USER GROUP MEMBERS

\*

THE PENINSULA GROUP WILL HOST OUR THIRD JOINT GET-TOGETHER ON SUNDAY OCT. 1 TOGETHER ON SUNDAY OCT, 15 ALL USER GROUP MEMBERS ARE 15. INVITED.

FESTIVITIES WILL START AT 12:00 WITH A JOINT BUSINESS MEETING AT 2:00. WE HAVE SOME SURPRISES PLANNED SO COME AND MEET YOUR T/S NEIGHBORS. SEE YOU THERE.

\$

A LOW COST DISK DRIVE FOR THE Timex/Sinclair

Sinclair Radionics, Ltd. of London, England, now has available a low cost disk drive for its line of personal the Sinclair computers. Named ZX Microdrive, it uses an under 3-inch diameter disk with a storage capacity of 85-kbytes. The system uses a single spiral track recording system similar to that of Control is provided phonograph. through a Ferranti, Ltd. custom designed LSI chip.

The drive will load a 48-kbyte program in 3.5 seconds and the worst case access time for a file is also 3.5 seconds. Up to 50 files can be stored on any single microdrive. A microdrive disk is removable and contained in a square housing about 3 inches on a side. The drive is only slightly larger than the disk and about 3 inches high. A total of 8 drives can be interfaced to the Sinclair/Timex computer, for a total on-line storage capacity 680-kbytes.

The microdrive will be interfaced to the Sinclair/Timex computers by another new Sinclair product, the ZX Interface 1. The drive will fit under the new Spectrum/TS-2000 series computers. The unit provides a modified Sinclair/Timex basic operating system for the microdrive files. The new unit also provides for the handling of a host of new communications abilities.

The new interface unit allows for local area networking at a 100-kbaud transfer rate. This permits the linking of 64 Spectrum/Timex systems A full video screen at once. transfer can occur in 3 seconds, and protocol the LAN allows Spectrum/TS-2000 to source any single, or group of target Spectrum/TS 200 systems. In this manner selected Spectrum/TS

In this manner selected Spectrum/TS 200 systems may serve as a dedicated file server with as many as 8 microdrives or as a printing station. To expand the capabilities of the present dedicated Sinclair/Timex

thermal printer, the expansion interface unit features an RS-232 port for serial communications or printing functions.

The price of the microdrive unit in the United Kingdom is \$76 (U.S. currency). Industry sources indicate that the model TS-2000, a ZX l Interface and a ZX Microdrive may retail in the United States for under \$300.

SOLAR WATER HEATER PAYOFF BY HOWARD COLLINS

(Price of 10 LET P=4000 installation) (Interest on bank 20 LET I=.09 savings) (Efficiency, % of solar 30 LET E=.70 heated water, 70% in this case.) (Years being consider-40 LET Y=5 ed.) (Fuel cost, use summer 50 LET F=14 gas bill figures.) (monthly) (Annual gain in the 60 LET G=.17 This is a big variable. price of gas. PG&E says 7-15%. California Public Utilities Commission says 21% for next three years, tapering down to 15% over the next ten years. Solar heater salesmen will use 35% to 50% in their sales pitch.) (Total gas bill, zero 70 LET T=0 initially.) (Number used for year.) 80 LET N=0 90 LET  $T=\overline{T}+(F*12*(1+G)**N)$  (Total gas bill for year being checked out.) (Adds to previous total.) 100 IF N=Y THEN GOTO 130 110 LET N=N+1 120 GO TO 90 (110 and 120 develops total gas bill years being investigated.) 130 PRINT T; "- Total gas cost (P\*.5\* (1+1)\*\*(4-.5))-40 LET W= (Line 140 premises you (T\*(1-E)will get back 50% of the price from federal state tax credits and put it in the bank to draw interest a half year later. The (T\*(1-E)) is the cost of the 30% water being heated by gas.) 150 PRINT W; 'Money in bank with solar. 160 LET 0=(P\*(1-I)\*\*Y)-T (Money stays in bank without solar.) 170 PRINT 0; 'Money in bank without solar.' (With above inputs, T=\$1546.75, W=\$2483.44, O=\$4607.75

LEARNING ZBO ASSEMBLY LANGUAGE PROGRAMMING PART 3

In previous articles we discussed the registers, hex numbers, and wrote a routine to print a message to the screen. In this article we will take a look at a few principles involved with writing loops and accessing tables.

Load the basic program from article two of this series, (Vol 1 Iss. 2), write to 4082h. Enter the hex codes in the left columns.

21 CA 40 START LD HL, TABLE

First we want to load the variable PNTR (pointer), with the address of TABLE. PNTR will always hold the current address in TABLE of the byte we want to access. The most convenient way of loading a memory location with a value is to load a 16-bit register pair with this value,

22 C8 40 LD (PNTR),HL

then loading the 16-bit address with the value in the register pair. We need to do this because there is no single instruction to load a memory location directly with data.

2A CB 40 NXTPT LD HL, (PNTR)

This is the beginning a routine to access a single byte of 8-bit data from a table .PNTR is a program variable that we will use to keep track of the address of the next byte to access.

TE LB A, (HL)

Load the accumulator with the contents of the address pointed to by the HL register pair.

23 INC HL

Increment PNTR to the next address in the table 22 C8 40 LD (PNTR),HL

The last two instructions updated PNTR, and stored the value back in PNTR.It is very important to make sure all pointers, registers are updated, before continuing operations in general.

FE FF CP FF

We will place the byte FF at the end of our table. This will provide us a seans of stopping execution of the program. In this format we can have a table of any length and not have to change the code. We only have to remembr to place FF at the end.

CB RET Z

The way out, if the contents of the accumulator and the contents of address pointed to by HL are the same the zero flag is set (1) and we will return to basic.Of course we could CALL this routine from another program and this instruction will return us to our program instead of BASIC.

E 18- CP 18

The next test we will perform will be to see if the contents of A is larger than 18h, which is the last line on the screen.

D2 88 40 JP NC,NXTPT

If the byte from the table is less than 18h then the CARRY flag is set (1) and the program continues. likewise, if the byte from the table is larger than 18h, the CARRY flag will be reset (0). We will then jump to location NXTPT and get the next byte from the table.

7 LD B.

The byte we got from TABLE will be used as a counter for a loop that will enable us to get the starting address in the display file.

2A OC 40 LD HL. (400C)

This begins the initialization section of the next loop.

23 INC HL 17 21 00 LD DE

21h is the length of one line in the display file.

9 ADLP ADD HL, DE

This is the processing portion of the addition loop. To get the address for

DE,0021

The following article is reproduced with permission from the 9/27/83 USA TODAY.

# Timex Sinclair still in game

By Kevin Anderson USA TODAY

Six months ago, analysts were wondering if Timex Inc.— with no apparent encore to its history-making Timex Sinciair 1000 home computer—would stay in the home computer business.

Last week, Timex began shipping the \$199 Timex Sinclair 2068 — touted as a second-generation home computer able to compete with the Commodore 64, Apple II and Coleco Adam.

Next week, it begins a national advertising blitz to let the USA know that the company that introduced the under-\$100 computer isn't out of the home computer game — crazy as that game has gotten.

The Timex Sinclair 1000 was credited with turning computers into mass-market items last year. But it and its early competitors, although inexpensive, did little useful computing.

Consumers quickly grew bored with them, price wars ensued as sales lagged, and makers scrambled to launch a second generation of home computers more like the powerful personal business computers costing \$1,000 and more.

In June, Coleco Inc.'s Adam and Atari Inc.'s 600XL were announced with much hoopia. Few noticed Timex's announcement that it would upgrade its Timex Sinclair 2000, which never was shipped.

"The 1000 was never more than a simple literacy computer. This is the next step, and we think a lot of our customers will move up to it," Daniel D. Ross, Timex vice president of computer marketing, said Monday. That bodes well, con-

the program we add hi,de times the number we got from TABLE.

10 FD

DJNZ ADLP

Do it until register B = 0

LD

06 20

LD INITL

B,20

Now we will begin to draw the line at the address produced from the previous loop.B now equals the number of characters to draw.

36 80

THI P

INC HL (HL),80

We are at the processing section of the drawing loop. Here we are loading the 8-bit location, addressed by the register pair HL, with the data 80h, which is the TIMEX character code for an inverse space. We could change this to any character we wished.

CD BC 40

CALL TLOOP

CALL if you remember is like GOSUB in basic. That is, we will goto TLOOP and then return to the next instruction. We need to have a timing loop here so we can see what happens on the scrren. You could change the value in TLOOP later on and see what happens.

10 FB

DJNZ

This instruction decrements register B, that we previously loaded, then tests the zero flag. If zero = 0 (not zero) then we go back to INLP.If zero = 1 then we continue to the following instruction.DJNZ is what is called a jump relative instruction. Jump relative instructions do not jump to an absolute address, they jump a set amount of STEPS forward or backward. Toni Baker's book Mastering Machine Code on Your ZX81 has an excellent description and a table of relative jumps. The subject is a lengthy one and we do not have the space here to do it justice.

06	20		SECLP	LD	8,20
36	00		SLOP	LD	(HL),0
2B				DEC	HL
CD	BC	40		CALL	TLOOP
10	F8			DJNZ	SLOP
36	00			LD	(HL),0
				JP	NXTPT

This is the reverse of the first loop, undrawing the line that we wrote in the first.

C2	LUUP	PUSH	BL
01 00 01 '	TLOP	LD DEC LD	BC,0150 BC A,B
78 81		OR	C
C2 CO 40		JP	NZ,TLOP
C1		POP	BC
ra		RET	

This is a 16-bit timing loop. That is it can handle timings of up to 65536 decimal. If BC equals 0000 when entering it will start at FFFFh because the first instruction of TLOP decrements Bc.

00 00

This is the location of PMTR. It is merely a memory location we will use to store the table pointer. We must reserve two bytes ofd space here for it, so enter two bytes of zero's here.

00 00 00 00 00 00 00 TABLE

Here enter any amount of zeros to accompodate the length of the table you wish to create. You may load the table later by writing to address 40CA. BE SURE TO PLACE AN FFH AFTER YOUR TABLE !!!

This program can be used as a subroutine in a game. One way would be to add another test (CP) for your character, a particular object etc. You could also have your program write the table and then entering with

CALL.

sidering that analysts say Timex accounts for 21.6 percent of the 8.5 million home computers in place, and 28 percent of those sold so far this year.

Timex also has the advantage of a current gap in deliveries. Adam and Atari are late coming to market. "There are some open spots on the shelves, and if Timex is shipping, they may get them by default," said Egil Julisson, chairman of Future Computing Inc.

The Timex Sinclair 2068 will sell for \$199 at Sears and Best department stores. It has 64,000 bytes, or characters, of main memory. Timex has eschewed packaging the computer with a printer and program drive, as Coleco and Atari are doing. But even with those accessories added, the purchase price still is slightly less than Coleco's \$600 Adam.

## LAST MINUTE NOTICE

TIMELINEZ has just learned about a conference that Timex will be sponsoring in Boston on Oct. 22. We are not sure about all the details yet. but it seems that User Group members and second party H/W and S/W suppliers are invited.

Rita Carr from the South Bay group will be on vacation near Boston at this time and she has volumteered to attend this meeting on behalf of all the groups. If anyone wants to have an item shown to Timex, they can send it to Rita and she will represent it at the meeting.

In order to make arrangements to get things to Rita, please contact Paul Perreault or George Mockridge. We hope to have more info. about this event in the near future.

# PUG NEWS

I HOPE THAT THIS ISSUE OF TIME-LINEZ WILL REACH ALL OUR SUB-SCRIBERS BEFORE OCT. 16TH. ON THAT DATE, PUG WILL HOST A JOINT MEETING FOR ALL T/S USER GROUP MEMBERS IN THE BAY AREA. THIS WILL BE AN OPPORTUNITY FOR PEOPLE TO MEET AND TALK WITH OTHERS WHO SHARE COMMON INTER-ESTS ASSOCIATED WITH TIMEX COMPUTERS.

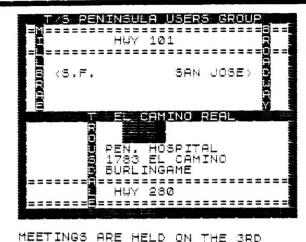
WE PLAN TO HAVE DISCUSSIONS ON BASIC, ASSEMBLY AND FORTH LAN-GUAGE PROGRAMMING. THERE WILL ALSO BE A CHANCE TO VIEW A WIDE VARIETY OF PERIPHERAL HARDWARE PRODUCTS. THE S/W LIBRARY WILL BE IN OPERATION WITH OVER 75 PROGRAMS AND WE HAVE A NUMBER OF DOOR PRIZES TO GIVE AWAY.

BE SURE AND LET ME KNOW IF YOU WANT TO ARRANGE FOR A SPECIAL DISPLAY OR IF YOU WISH TO MAKE A PRESENTATION AT THIS EVENT. I WOULD ALSO ASK OUR REGULAR PUG MEMBERS TO TRY AND PARK A LITTLE FARTHER OUT AND LEAVE THE CLOSER SPACES TO THOSE WHO ARE NOT AS FAMILIAR WITH THE LOTS. THE SIDE ENTRANCE ON THE NORTH END OF THE BUILDING IS THE EASIEST ACCESS TO THE MEETING ROOMS ON THE LOWER FLOOR.

THANKS TO KENDRIC SMITH AND HIS DIRECTORY PROGRAM, I NOW HAVE ALL OUR NAMES AND ADDRESSES ON MY COMPUTER. I PLAN TO LIST THIS INFORMATION IN THE NEXT ISSUE OF TIMELINEZ SO THAT PUG MEMBERS CAN GET IN TOUCH WITH EACH OTHER BETWEEN MEETINGS. IF ANYBODY DOES NOT WISH THIS INFORMATION TO BE PRINTED, LET ME KNOW SO I CAN OMIT YOUR NAME.

FINALLY, I WOULD LIKE TO WELCOME OUR NEWEST PUG MEMBER, LITTLE LYLA RENEE MOURA. LYLA IS THE NEW BABY BORN ON SEPT. STH TO PARIS AND FRANK MOURA WHO ARE AMONG THE ORIGINAL MEMBERS OF OUR GROUP. I KNOW I SPEAK FOR EVERYONE WHEN I EXTEND OUR BEST WISHES TO THE MOURA FAMILY. ONE CAN ONLY SPECULATE AS TO THE LEVEL OF COMPUTER TECHNOLOGY THAT WILL BE ACHIEVED IN LYLA/S LIFETIME.

George



MEETINGS ARE HELD ON THE 3RD SUNDAY OF EACH MONTH. 1 P.M. \*\*JOINT MEET. OCT 16\*\* NOV. 20

MEET. ROOMS ARE ON LOWER FLOOR.

NOTE PLEASE USE THE ENTRANCE ON THE NORTH SIDE OF THE HOSPITAL. ALSO TRY TO PARK ON NORTH SIDE, NOT IN THE VISITORS LOT. THANKS

ELECTRICAL OUTLETS AND TABLES ARE AVAILABLE SO BRING YOUR EQUIP. AND EXTENSION CORDS IF POSSIBLE.

CAFETERIA SERVICE IS AVAILABLE AND FAMILIES ARE WELCOME.

MEMBERSHIP SCHEDULE:

FULL (NEWSLETTER AND 8/W LIBRARY PRIVILEGES) \$15/YR

PARTIAL (NEWSLETTER ONLY) \$10/YR

FOR MORE INFORMATION CONTACT:

GEORGE MOCKRIDGE 253 GATEWAY NO. 107 PACIFICA, CA. 94044 (415) 359-3198

SEND NEWSLETTER CONTRIBUTIONS:

FRANK MOURA 858 CHENERY ST. SAN FRANCISCO, CA. 94131 (415) 333-2231

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T/S 1000 T/S 2000

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### TELL TIMEX CONTEST

#### PART 2

THE REST OF THE ENTRIES IN OUR RECENT TELL TIMEX CONTEST ARE LISTED BELOW. ALL WINNERS CAN SELECTIONS OR THEIR 3/W TITLE SELECTIONS OR THEY CAN PICK UP THEIR 4 FREE TAPES IN PERSON AT SUNSET ELECTRONICS IN SAN FRANCISCO. CONGRATULATIONS TO ALL WHO ENTERED.

#### DEAR TIMEX:

I/M A SAN JOSE STATE STUDENT AND THE NEW OWNER OF A TS 1000. I/M STILL SAVING MY MONEY TO BUY A 16K OR 32K RAM SO I CAN USE THE TIMEX SOFTWARE. TO DATE I DON/T HAVE ANY SOFTWARE, BUT SOME THAT WOULD HELP ME IN MY MAJOR OF BUSINESS MANAGEMENT AND ON MY JOB ARE AS FOLLOWS:

- QUANTITATIVE BUSINESS 11
- QUANTITATIVE BUSINESS
  ANALYSIS
  ACCOUNTING-ALL LEVELS
  PURCHASING AND MATERIALS
  INVENTORY CONTROL
  MICRO ECONOMICS W/GRAPHICS
  BUSINESS LAW
  BUSINESS STATISTICS
  MARKETING PROBLEMS
  BUSINESS FINANCE 21 3)
- 5)

HOPE THESE HELP.
THANK YOU,
SCOTT OLDENDORPH

DEAR TIMEX,

ENCLOSED PERHAPS, A SUGGESTIVE ITEM THAT TIMEX CAN PRODUCE OR INCORPORATE IN THEIR PRESENT ASSEMBLY OR WHATEVER.

THIS IS AN OVERLAY OF THE KEYBOARD (PHOTO COPY) WITH A PROTECTIVE CLEAR PLASTIC FOR
LONGER, DURABLE WEAR. THE BACK
SIDE IS OUTLINED WITH 1/16"
RUBBER STRIPS WITH "DOUBLE BACK'
STICKY TAPE. THIS WILL COVER
AND LOOK LIKE THE ORIGINAL
EXCEPT FOR THE PINK COLOR FOR
ENHANCEMENT.
IN USE, I HAVE FOUND THIS TO BE ENTHUCEMENT TO BE IN USE, I HAVE FOUND THIS TO BE THE MOST EFFECTIVE OVERLAY TO BE FOUND ON THE MARKET, EVEN THE ONE FROM KOPAK. TRY THIS ONE YOURSELF AND YOU/LL SEE WHAT I MEAN.

ALSO, I HAVE MADE, DESIGNED, AND BUILT A KEYBOARD (REGULAR KEYS) THAT WILL FIT EXACTLY OVER THE ORIGINAL KEYBOARD AND PLUG INTO THE EXISTING RIBBON SOCKET WITH NO MODIFICATION TO VOID YOUR HABBONTY WARANTY.

THANK YOU, NICK CARACAL

DEAR TIMELINEZ,

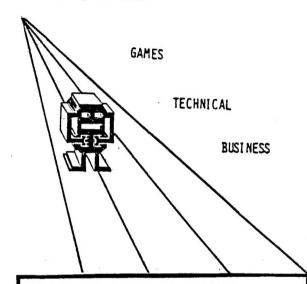
I SUGGEST THAT TIMEX COMPUTER CORP. ALLOW THOSE OF US THAT PURCHASED THE TIMEX 1000 TO TRADE THEM IN FOR THE TIMEX 1500 OR SOME FUTURE MODEL, GIVING US A "NOMINAL" CREDIT OF \$25-35. THIS WOULD STIMULATE SALES AND WOULD BE A GOOD ADVER-

TISING GIMMICK. ALSO, WE COULD STILL USE THE RAM PACK AND MOST OTHER PERIPHIAL EQUIPMENT WHICH

SINCERELY, CHARLES SIVASLIAN

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# **~~**/\\_\_

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By Paul Perrault

# SBZUG TO ATTEND BOSTON COMPUTER CELEBRATION

Rita Carr, our advertising person, will represent our club at a special anniversary celebration sponsored by Boston Computer Society on October 21 and 22 at the Boston Park The BCS, with Sue Plaza Hotel. Mahoney (formerly with Timex) has put together an impressive event to acknowledge the achievement Sinclair and Timex computer users and hardware and software suppliers and to examine the numerous ways in which these computers can and are being used in business, home, education and entertainment. Numerous workshops, demonstrations and displays T/S 206B will be featured. Hardware, software, and publishing companies from all over the U.S. will be there, as will Timex.

Hopefully, if some tricky logistics are worked out, Rita will demonstrate that nifty music program developed by Bob Overfelt and played for us at our last meeting. We understand that there may be some T/S 206B for sale at this event.

#### SBZUG LOOKS FOR NEW PRESIDENT

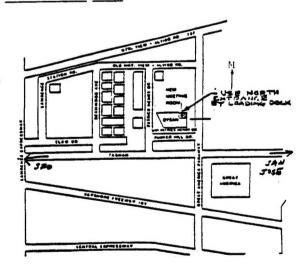
Citing increased business workload, Paul D. Perrault announced that, effective in October, he will step down as leader of the South Bay group. At our next meeting we hope to choose our next president. Any interested persons please contact Teddy Helderman. Paul mentioned that now that the club machinery is all in place and running smoothly (we have some very good people in this club), the job of president is much easier.

At the last meeting Paul mentioned his pleasure and satisfaction gained in founding the club and watching it grow into the largest group in California, if not the West Coast, and in supporting the growth of spin-off sister groups throughout the San Francisco Bay Area. "I am especially pleased to have worked

with Martin Clinton, founder and past editor of <u>SincLink</u>, who really put us on the map; with George Mockridge, who has worked hard to publish a Greater Bay Area users groups newsletter, Timelinez; and with Teddy Helderman, the present editor of our section of Timelinez and the keeper of the membership list. These three folks have been instrumental in the I am also most club's growth. thankful to all of you who have the club: George helped run Mockridge and Dennis Parker for excellent putting together an software library; George Knighton and Dave Kinkead for their monthly efforts to get the newsletter out to us; Neil Steckley for his tape sales efforts and Rita Carr for agreeing to find advertisers for the newsletter and to handle the finances. finally, I must thank each and every one of you who have continued to find new and exciting ways to use the Sinclair and Timex computers.

Best wishes. Uncle Clive would be pleased!"

DON'T FORGET THE JOINT MEETING ON OCTOBER 16, 1983.



The SBZUG meeting will be on October 25, 1983, at 7 p.m. in the Dysan Corporation Auditorium.

Dysan Corporation 5201 Patrick Henry Drive Santa Clara, Ca. SEPTEMBER 24, 1983

TO

P.U.G. MEMBERS WITH AN INTEREST IN FORTH

FROM

WALT GABY

SUBJECT

FORTH INTEREST, TIMEX SINCLAIR (F.I.T.S.)

AT THE SEPTEMBER 8 MEETING OF PUG, SEVERAL PEOPLE INDICATED A SPECIAL INTEREST IN FORTH:

MALCOLM MC.AFEE KENDRIC C. SMITH GEORGIE\_JOE PERRY TED EBERLY NORMAN H. LEHFELDT WALT GABY

THERE ARE CERTAIN TO BE MEMBERS OF OTHER BAY AREA USER GROUPS WHO ALSO HAVE SUCH AN INTEREST.

- I WOULD LIKE TO SUGGEST THE ESTABLISHMENT OF AN INTER-GROUP PROJECT WHICH MIGHT INVOLVE THE FOLLOWING:
- IDENTIFY T/S USERS WHO ARE INTERESTED IN FORTH
- 2. MAKE A SURVEY TO DETERMINE LEVEL OF EXPERIENCE AND IN-TEREST
- 3. HOLD A SERIES OF WORKSHOPS
- 4. REVIEW AND ANALYSE AVAILABLE FORTH SYSTEMS
- 5. GIVE DEMONSTRATIONS AT BAY AREA T/S USER GROUP MEETINGS
- 6, PROVIDE TUTORIAL HELP FOR T/3 OWNERS WHO WISH TO LEARN FORTH

SOMEONE SUGGESTED THAT WE HAVE A LITTLE GET-TOGETHER TOWARDS THE END OF THE JOINT PUG-EBZUG-SBZUG MEETING NEXT MONTH.

DATE, I HAVE IDENTIFIED FIVE TH (OR FORTH-LIKE) SYSTEMS TO DAT ON THE MARKET

IP+S (CANADA) FORTH DIMENSION HAUG WILD SOFT\_MAGIC\_\_ X FORTH ZX FURTH XFORTH TREE-FORTH GOLDEN STAIR

IT WOULD BE INTERESTING TO DO A COMPARATIVE ANALYSIS OF THESE

AS YOU MAY KNOW, THERE WILL BE A BORTH WATIONAL BONVENTION AT THE HYATT PALO ALTO ON OCTOBER 14 AND 15. IF INTERESTED, CON-TACT F.I.G AT (415) 962-8653.

IN CLOSING, I WANT TO REPORT THAT I SAW A BUMPER STICKER THE OTHER DAY THAT SAID:

FORTH-PROGRAMMERS BEGIN DOIT PTERMINAL UNTIL :

I AM A NEWCOMER TO FORTH. IS IT REALLY TRUE?

SEE YOU AT THE OCTOBER 16 MEET-ING.

OK

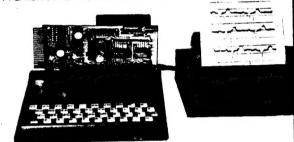
Walt

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# FFT\* - SCOPE on TIMEX

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Not Just For Timex: 8+8 channel A/D + D/A Board. Connects to CBM64, APPLE, TRS-80, Jupiter Ace, others. Connects to micro-processor buss to give you higher speeds and ease of programming. Fast: 200K samples/sec with Z80A A/D convert time 1.8µs.

Easy to program: One PEEK chooses the channel, starts the conversion and gets the data. Routines provided. Many on board options such as the ability to switch select the decoding address anywhere on the memory map. 8 bit resolution converters; routines for higher resolution. Manual w/software.

Low cost: Assembled and tested \$195. Cable \$15. Box \$15.

Other peripherals for Timex: Buffered Buss/Development Board kit \$65; Con-

Please call or write for FREE CATALOG.

# (omputer ontinuum

301 Sixteenth Avenue San Francisco, CA 94118

(415) 752-6294

- CONTINUED FROM PAGE 21 -TS2068 HAND CLAP

20 POR r=0 TO 15: SOUND r,0: NEXT r

30 FOR t=1 TO 15

40 SOUND 6,24;7,7;8,25;10,16;12 ,10;13,16

50 PAUSE 20

60 NEXT t

TS2000 MULTICOLORED CIRCLES

7 BORDER 1: PAPER 7: CLS

8 FOR c=1 TO 6

9 INK c

10 PLOT 10\*(c-1),88: DRAW 128-20\*(C-1),0,-PI

15 NEXT c

20 INK 0

```
INTRODUCING: "SCOREPAD"
```

THIS SUMMER, MY FAMILY WAS PLAYING TABLE GAMES. I DECIDED THAT THE T/S WOULD BE GOOD FOR KEEPING SCORE FOR SEVERAL PEOPLE

I WROTE A SIMPLE PROGRAM THAT EVOLVED INTO A MORE COMPLEX ONE-WITH ALL THE "BELLS AND WHISTLES

I FOUND IT VERY USEFUL AND FUN. ALL SCORES ARE COMPUTED AND SHOWN FOR ALL TO SEE.

I WANTED TO SHARE A MORE MOD-EST BUT HANDY VERSION WITH MY TIMELINZ FRIENDS.

. AFTER SHOWING IT AT THE SEPT-EMBER MEETING, WALT GABY SENT ME HIS EDITORIALS SUGGESTIONS. ---THANKS TO WALT.

TRY THIS LISTING, IT WILL RECORD SCORES FOR 1 TO 4 PLAYERS.
THE NAME OF THE GAME (EG.DICE)
AND DATE ARE PRINTED FOR PERMENANT RECORDS (COMPETITION PLAY).
PLAYERS ARE PROMPETE BY NAME AND
THE HAND BEING PLAYED IS PROMPTED. MINUS SCORES AND COMPLEX
SCORES (EG.3+50-200\*5) WILL WORK.

ALSO THE GAME CAN BE SAVED AND WHEN LOADED AND STARTED WITH A GOTO 300 COMMAND IT WILL CONTINUE WHERE YOU LEFT OFF.

IF THE SCOREPAD IS FILLED, USE A BOTO 300 TO CONTINUE PLAY.

Goto 130 For Fresh game same players,
USE "COPY" FOR A PRINTOUT.
USE "RUN" FOR NEW GAME.

IF YOU"D LIKE THE MORE COMPLEX PROGRAM FOR 1 TO 5 PLAYERS ON CASSETTE, YOU CAN GET IT FROM OUR SOFTWARE LIBRARY OR SEND ME \$5.00 AND I"LL SEND YOU A CAS-SETTE. SETTE.

L.. SALES 21 COLORADOS DR. MILLBRAE, CA.94030 ALL RIGHTS ARE RESERVED.

HAVE FUN

WALTER E. JOHNSON

PHONE: (415) 697-6212 EVENINGS

10 PRINT AT 5,10;"**Scorepho**";AT 8,2;"Enter game name and date"; T 9,2;"

20 INPUT F\$
30 PRINT AT 10,2;F\$
40 PRINT AT 12,2;"ENTER NUMBER

OF PLAYERS 1 TO 4"
SO INPUT P
60 CLS
70 PRINT AT 5,2; "ENTER ";P;" N
AMES";AT 6,2; "USE UP TO 6 LETTER

80 LET I\$="\*" 90 LET J\$="\*" 100 LET K\$="\*" 110 LET L\$="\*" 120 INPUT I\$

130 PRINT PRINT IS IF P=1 THEN GOTO 230 140 140 IP PET 180 160 160 160 160 PRINT J\$
170 IF PE2 THEN GOTO 230
180 INPUT K\$ 130 INPUL NA PRINT K\$ IF P=3 THEN GOTO 230 INPUT L\$ DBINT L\$ 190 PRINT 200 IF PRINT CLS LET A 220 上虫 230 240 250 A=0 290 CLS
300 PRINT "HAND SCOREDAD ";F\$
310 PRINT AT 1,2;I\$;AT 1,9;J\$;A .
T 1,15;K\$;AT 1,23;L\$
.320 PRINT AT 20,0;"ENTER SCORE
PY,GOTO 300,OR RUN"
330 FOR N=1 TO 9
340 PRINT AT N\*2,0;CHR\$ (H+155)
350 PRINT AT 20,15;"
20.15:T\* 350 PRINT HI 20,15; ",H! 20,15; I\$ 360 INPUT S 370 PRINT AT N\*2,2; "+"; S; AT N\*2 +1,2; "="; S+A 380 LET A=A+S 390 IF P=1 THEN GOTO 540 400 PRINT AT 20,15; " "; AT 400 PRINT AT 20,15; " "; AT 20,15; J\$
410 INPUT T
420 PRINT AT N\*2,9; "+"; T; AT N\*2
+1,9; "="; T+8
430 LET B=B+T
440 IF P=2 THEN GOTO 540
450 PRINT AT 20,15; " "; AT 20,15; K\$
460 INPUT U
470 PRINT AT N\*2,16; "+"; U; AT N\*
2+1,16; "="; U+C
480 LET C=C+U
490 IF P=3 THEN GOTO 540
500 PRINT AT 20,15; " "; AT 20,15; L\$ 500 PRINT AT 20,10, 20,15;L\$
510 INPUT V
520 PRINT AT N\*2,23;"+";V;AT N\*
2+1,23;"=";V+D
530 LET D=D+V
540 LET H=H+1
550 NEXT N
560 PRINT AT 20,0;"SOREEN FULL
NOW COPY,OR GOTO 300 TO CONTINUE
,OR RUN FOR NEW GAME"
570 STOP

EAST SAY TIMEX/SINCLAIR USERS

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